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((Unsupervised AND supervised) AND neural) AND clustering): 84 patents.

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Unsupervised and supervised and neural and cluster


PAT. NO. Title

- 1 [6,661,908](#) **T** [Signature recognition system and method](#)
- 2 [6,658,287](#) **T** [Method and apparatus for predicting the onset of seizures based on features derived from signals indicative of brain activity](#)
- 3 [6,654,728](#) **T** [Fuzzy logic based classification \(FLBC\) method for automated identification of nodules in radiological images](#)
- 4 [6,650,779](#) **T** [Method and apparatus for analyzing an image to detect and identify patterns](#)
- 5 [6,647,379](#) **T** [Method and apparatus for interpreting information](#)
- 6 [6,646,996](#) **T** [Use of adaptive resonance theory to differentiate network device types \(routers vs switches\)](#)
- 7 [6,643,639](#) **T** [Customer self service subsystem for adaptive indexing of resource solutions and resource lookup](#)
- 8 [6,640,130](#) **T** [Integrated imaging apparatus](#)
- 9 [6,639,900](#) **T** [Use of generic classifiers to determine physical topology in heterogeneous networking environments](#)
- 10 [6,636,862](#) **T** [Method and system for the dynamic analysis of data](#)
- 11 [6,636,841](#) **T** [System and method for telecommunications system fault diagnostics](#)
- 12 [6,629,089](#) **T** [Artificial neural network voice coil motor controller](#)
- 13 [6,618,713](#) **T** [Neural directors](#)
- 14 [6,584,456](#) **T** [Model selection in machine learning with applications to document clustering](#)
- 15 [6,581,048](#) **T** [3-brain architecture for an intelligent decision and control system](#)
- 16 [6,574,378](#) **T** [Method and apparatus for indexing and retrieving images using visual keywords](#)

- 17 [6,511,424](#) **T** [Method of and apparatus for evaluation and mitigation of microsleep events](#)
- 18 [6,505,207](#) **T** [Methods and apparatus for performing dimensionality reduction in a supervised application domain](#)
- 19 [6,502,081](#) **T** [System and method for classifying legal concepts using legal topic scheme](#)
- 20 [6,496,816](#) **T** [Collaborative filtering with mixtures of bayesian networks](#)
- 21 [6,490,527](#) **T** [Method for characterization of rock strata in drilling operations](#)
- 22 [6,424,859](#) **T** [Diagnosis of rheumatoid arthritis in vivo using a novel spectroscopic approach](#)
- 23 [6,408,290](#) **T** [Mixtures of bayesian networks with decision graphs](#)
- 24 [6,385,479](#) **T** [Method for determining activity in the central nervous system](#)
- 25 [6,366,897](#) **T** [Cortronic neural networks with distributed processing](#)
- 26 [6,353,814](#) **T** [Developmental learning machine and method](#)
- 27 [6,336,109](#) **T** [Method and apparatus for inducing rules from data classifiers](#)
- 28 [6,304,675](#) **T** [Visual cluster analysis and pattern recognition methods](#)
- 29 [6,298,351](#) **T** [Modifying an unreliable training set for supervised classification](#)
- 30 [6,278,799](#) **T** [Hierarchical data matrix pattern recognition system](#)
- 31 [6,266,593](#) **T** [Automotive occupancy sensor gray zone neural net conditioning process for airbag deployment systems](#)
- 32 [6,260,036](#) **T** [Scalable parallel algorithm for self-organizing maps with applications to sparse data mining problems](#)
- 33 [6,233,575](#) **T** [Multilevel taxonomy based on features derived from training documents classification using fisher values as discrimination values](#)
- 34 [6,226,408](#) **T** [Unsupervised identification of nonlinear data cluster in multidimensional data](#)
- 35 [6,212,509](#) **T** [Visualization and self-organization of multidimensional data through equalized orthogonal mapping](#)
- 36 [6,175,643](#) **T** [Neural network based auto-windowing system for MR images](#)
- 37 [6,169,981](#) **T** [3-brain architecture for an intelligent decision and control system](#)
- 38 [6,148,099](#) **T** [Method and apparatus for incremental concurrent learning in automatic semiconductor wafer and liquid crystal display defect classification](#)
- 39 [6,134,537](#) **T** [Visualization and self organization of multidimensional data through equalized orthogonal mapping](#)
- 40 [6,134,532](#) **T** [System and method for optimal adaptive matching of users to most relevant entity and information in real-time](#)
- 41 [6,111,602](#) **T** [Method and apparatus for inspecting solder joints](#)
- 42 [6,108,004](#) **T** [GUI guide for data mining](#)
- 43 [6,076,053](#) **T** [Methods and apparatus for discriminative training and adaptation of pronunciation networks](#)
- 44 [6,070,098](#) **T** [Method of and apparatus for evaluation and mitigation of microsleep events](#)
- 45 [6,049,861](#) **T** [Locating and sampling of data in parallel processing systems](#)
- 46 [6,047,277](#) **T** [Self-organizing neural network for plain text categorization](#)
- 47 [6,035,057](#) **T** [Hierarchical data matrix pattern recognition and identification system](#)

48 6,026,397  Data analysis system and method

49 5,987,442  Method and apparatus for learning network behavior trends and predicting future behavior of communications networks

50 5,960,397  System and method of recognizing an acoustic environment to adapt a set of based recognition models to the current acoustic environment for subsequent speech recognition

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((Unsupervised AND supervised) AND neural) AND clustering): 84 patents.

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PAT. NO.	Title
51 5,940,529	T Self-organizing circuits
52 5,920,852	T Large memory storage and retrieval (LAMSTAR) network
53 5,862,519	T Blind clustering of data with application to speech processing systems
54 5,850,470	T Neural network for locating and recognizing a deformable object
55 5,835,901	T Perceptive system including a neural network
56 5,822,741	T Neural network/conceptual clustering fraud detection architecture
57 5,761,383	T Adaptive filtering neural network classifier
58 5,741,648	T Cell analysis method using quantitative fluorescence image analysis
59 5,734,796	T Self-organization of pattern data with dimension reduction through learning of non-linear variance-constrained mapping
60 5,733,721	T Cell analysis method using quantitative fluorescence image analysis
61 5,729,662	T Neural network for classification of patterns with improved method and apparatus for ordering vectors
62 5,649,070	T Learning system with prototype replacement
63 5,644,652	T System and method for automatic handwriting recognition with a writer-independent chirographic label alphabet
64 5,629,870	T Method and apparatus for predicting electric induction machine failure during operation
65 5,621,815	T Global threshold method and apparatus
66 5,561,741	T Method of enhancing the performance of a neural network
67 5,559,929	T Method of enhancing the selection of a training set for use in training of a neural network

- 68 [5,493,688](#) **T** [Pattern categorization system having self-organizing analog fields](#)
 - 69 [5,485,908](#) **T** [Pattern recognition using artificial neural network for coin validation](#)
 - 70 [5,469,530](#) **T** [Unsupervised training method for a neural net and a neural net classifier device](#)
 - 71 [5,469,369](#) **T** [Smart sensor system and method using a surface acoustic wave vapor sensor array and pattern recognition for selective trace organic vapor detection](#)
 - 72 [5,465,308](#) **T** [Pattern recognition system](#)
 - 73 [5,448,684](#) **T** [Neural network, neuron, and method for recognizing a missing input valve](#)
 - 74 [5,444,820](#) **T** [Adaptive system and method for predicting response times in a service environment](#)
 - 75 [5,425,368](#) **T** [Method and apparatus for estimating tissue volumes in magnetic resonance images](#)
 - 76 [5,373,486](#) **T** [Seismic event classification system](#)
 - 77 [5,335,291](#) **T** [Method and apparatus for pattern mapping system with self-reliability check](#)
 - 78 [5,299,284](#) **T** [Pattern classification using linear programming](#)
 - 79 [5,274,714](#) **T** [Method and apparatus for determining and organizing feature vectors for neural network recognition](#)
 - 80 [5,263,120](#) **T** [Adaptive fast fuzzy clustering system](#)
 - 81 [5,251,144](#) **T** [System and method utilizing a real time expert system for tool life prediction and tool wear diagnosis](#)
 - 82 [5,161,204](#) **T** [Apparatus for generating a feature matrix based on normalized out-class and in-class variation matrices](#)
 - 83 [4,979,126](#) **T** [Neural network with non-linear transformations](#)
 - 84 [4,897,811](#) **T** [N-dimensional coulomb neural network which provides for cumulative learning of internal representations](#)
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